

Resource Summary Report

Generated by [dkNET](#) on Sep 5, 2026

CU427.4

RRID:TSC_SD00715

Type: Organism

Proper Citation

RRID:TSC_SD00715

Organism Information

URL: <https://sites.wustl.edu/tetrahymena/finding-strains/>

Proper Citation: RRID:TSC_SD00715

Description: Tetrahymena thermophila with name CU427.4 from TSC.

Species: Tetrahymena thermophila

Notes: Cycloheximide resistance functional heterokaryon. Regenerated micronucleus from CU427.2 by "star" mating. Non-star side maintained.

Catalog Number: SD00715

Background: chx1-1/chx1-1 (CHX1; cy-s, VI)

Database: TSC, Tetrahymena Stock Center

Database Abbreviation: TSC

Source References: [PMID:730051](#), [PMID:689366](#), [PMID:411713](#)

Organism Name: CU427.4

Record Creation Time: 20230308T214042+0000

Record Last Update: 20260829T230854+0000

Ratings and Alerts

No rating or validation information has been found for CU427.4.

No alerts have been found for CU427.4.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: TSC, Tetrahymena Stock Center

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Pinello JF, et al. (2024) Novel requirements for HAP2/GCS1-mediated gamete fusion in Tetrahymena. *iScience*, 27(6), 110146.

Cole ES, et al. (2023) The Tetrahymena bcd1 mutant implicates endosome trafficking in ciliate, cortical pattern formation. *Molecular biology of the cell*, 34(8), ar82.

Lian Y, et al. (2022) Histone Chaperone Nrp1 Mutation Affects the Acetylation of H3K56 in Tetrahymena thermophila. *Cells*, 11(3).

Singleton AL, et al. (2021) Increasing temperature weakens the positive effect of genetic diversity on population growth. *Ecology and evolution*, 11(24), 17810.

Moerman F, et al. (2020) Evolution under pH stress and high population densities leads to increased density-dependent fitness in the protist Tetrahymena thermophila. *Evolution; international journal of organic evolution*, 74(3), 573.

Benz PM, et al. (2020) AKAP12 deficiency impairs VEGF-induced endothelial cell migration and sprouting. *Acta physiologica (Oxford, England)*, 228(1), e13325.

Aijaz I, et al. (2019) Cheating, facilitation and cooperation regulate the effectiveness of phage-encoded exotoxins as antipredator molecules. *MicrobiologyOpen*, 8(2), e00636.

Zou D, et al. (2017) Behavioral Effects of a Chemorepellent Receptor Knockout Mutation in Tetrahymena thermophila. *mSphere*, 2(4).

Yale K, et al. (2016) Phosphorylation-Dependent Targeting of Tetrahymena HP1 to Condensed Chromatin. *mSphere*, 1(4).

Hamilton EP, et al. (2016) Structure of the germline genome of Tetrahymena thermophila and relationship to the massively rearranged somatic genome. *eLife*, 5.

Carle CM, et al. (2016) A Parallel G Quadruplex-Binding Protein Regulates the Boundaries of DNA Elimination Events of Tetrahymena thermophila. *PLoS genetics*, 12(3), e1005842.

Yan GX, et al. (2016) Cdk3, a conjugation-specific cyclin-dependent kinase, is essential for the initiation of meiosis in Tetrahymena thermophila. *Cell cycle (Georgetown, Tex.)*, 15(18), 2506.

Iwamoto M, et al. (2015) Biased assembly of the nuclear pore complex is required for somatic and germline nuclear differentiation in Tetrahymena. *Journal of cell science*,

128(9), 1812.

Fukuda Y, et al. (2015) Role of the Cytosolic Heat Shock Protein 70 Ssa5 in the Ciliate Protozoan *Tetrahymena thermophila*. *The Journal of eukaryotic microbiology*, 62(4), 481.

Xu J, et al. (2015) Chromodomain protein Tcd1 is required for macronuclear genome rearrangement and repair in *Tetrahymena*. *Scientific reports*, 5, 10243.

Phadke SS, et al. (2012) Is Evolution of Mating Preferences Inevitable? Random Mating in the Multisex System of *Tetrahymena thermophila*. *International journal of evolutionary biology*, 2012, 201921.

Stolfa G, et al. (2012) Entry and killing of *Tetrahymena thermophila* by bacterially produced Shiga toxin. *mBio*, 4(1), e00416.